

FIG. 1

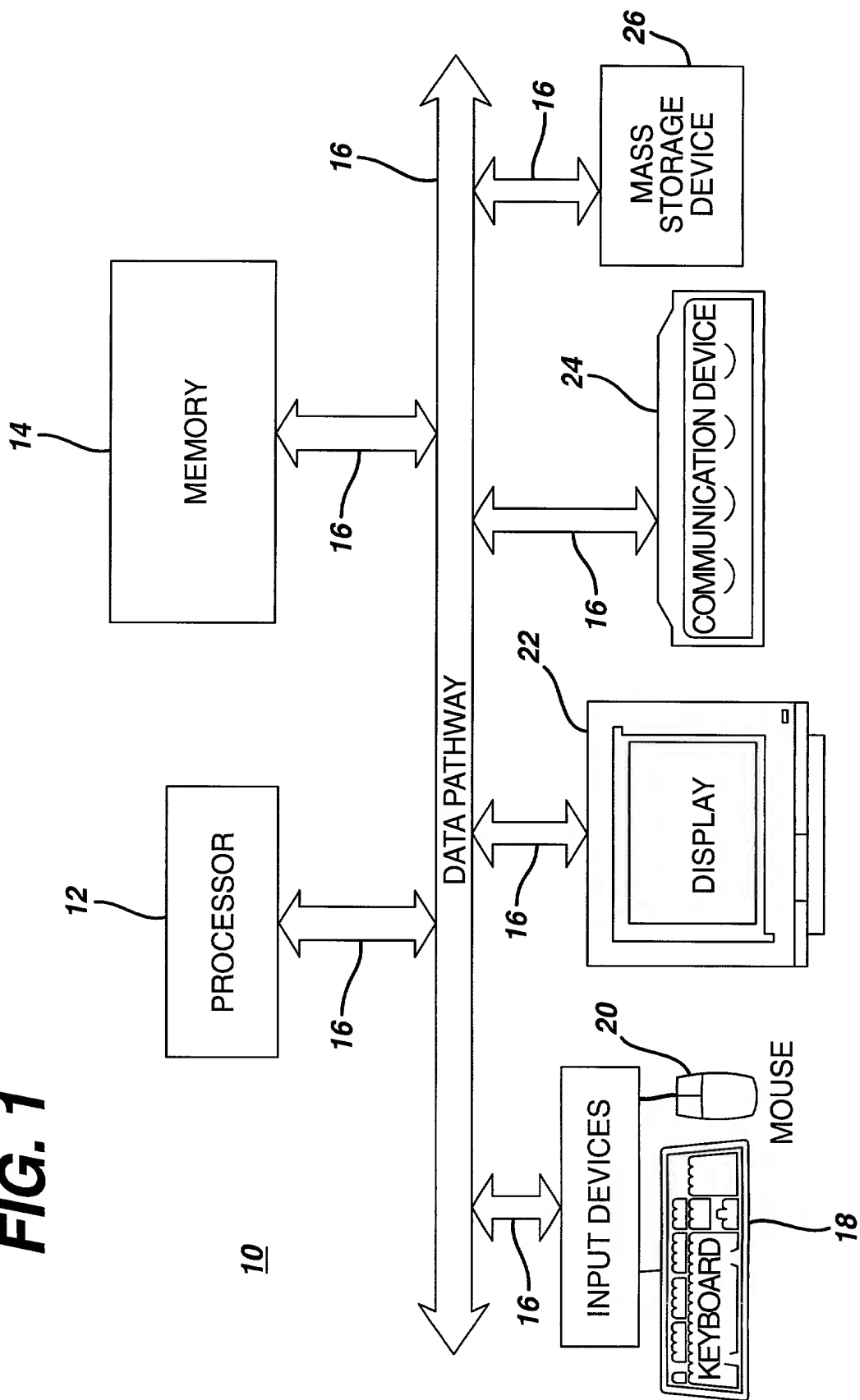
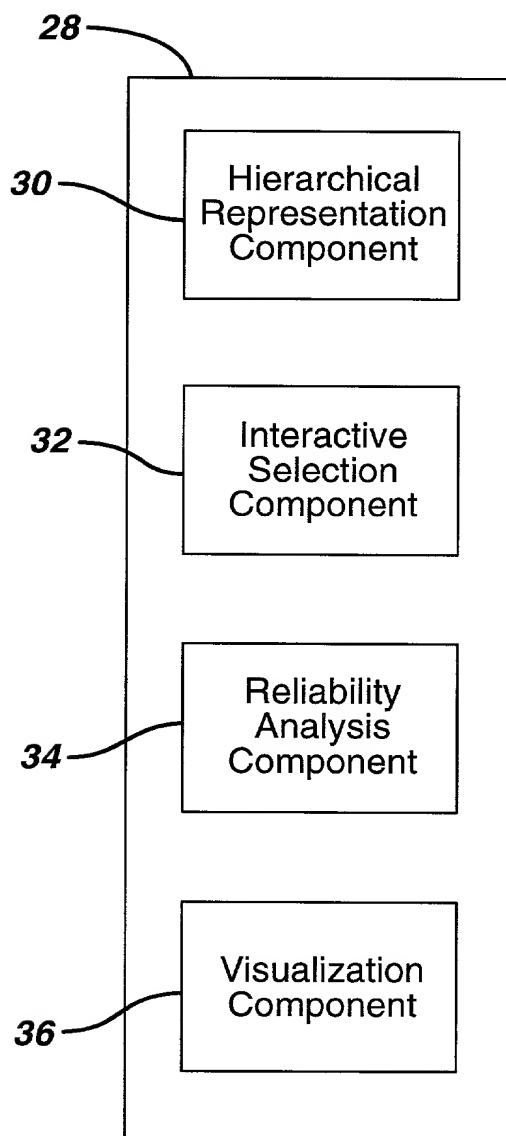


FIG. 2



09897556-101501

FIG. 3

Data Element 1
 Level = 1
 Value = A
 pointer up = NULL
 pointer down = 3
 pointer left = NULL
 pointer right = 2

Data Element 2
 Level = 1
 Value = B
 pointer up = NULL
 pointer down = 5
 pointer left = 1
 pointer right = NULL

Data Element 3
 Level = 2
 Value = a
 pointer up = 1
 pointer down = 7
 pointer left = NULL
 pointer right = 4

Data Element 4
 Level = 2
 Value = b
 pointer up = 1
 pointer down = 9
 pointer left = 3
 pointer right = NULL

Data Element 5
 Level = 2
 Value = c
 pointer up = 2
 pointer down = 10
 pointer left = NULL
 pointer right = 6

Data Element 6
 Level = 2
 Value = d
 pointer up = 2
 pointer down = 11
 pointer left = 5
 pointer right = NULL

Data Element 7
 Level = 3
 Value = U
 pointer up = 3
 pointer down = NULL
 pointer left = NULL
 pointer right = 8

Data Element 8
 Level = 3
 Value = V
 pointer up = 3
 pointer down = NULL
 pointer left = 7
 pointer right = NULL

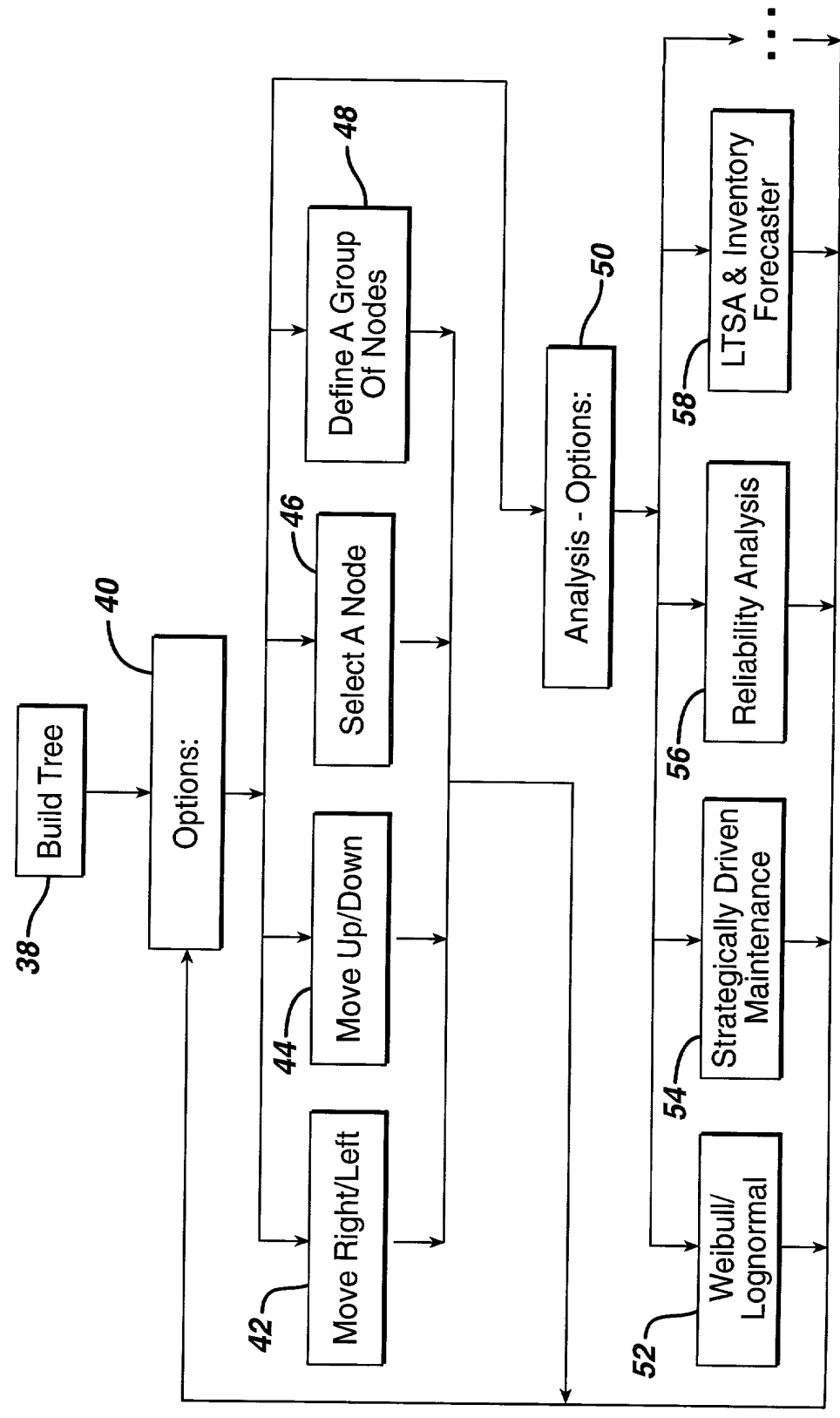
Data Element 9
 Level = 3
 Value = W
 pointer up = 4
 pointer down = NULL
 pointer left = NULL
 pointer right = NULL

Data Element 10
 Level = 3
 Value = X
 pointer up = 5
 pointer down = NULL
 pointer left = NULL
 pointer right = NULL

Data Element 11
 Level = 3
 Value = Y
 pointer up = 6
 pointer down = NULL
 pointer left = NULL
 pointer right = 12

Data Element 12
 Level = 3
 Value = Z
 pointer up = 6
 pointer down
 pointer left = 11
 pointer right = NULL

FIG. 4



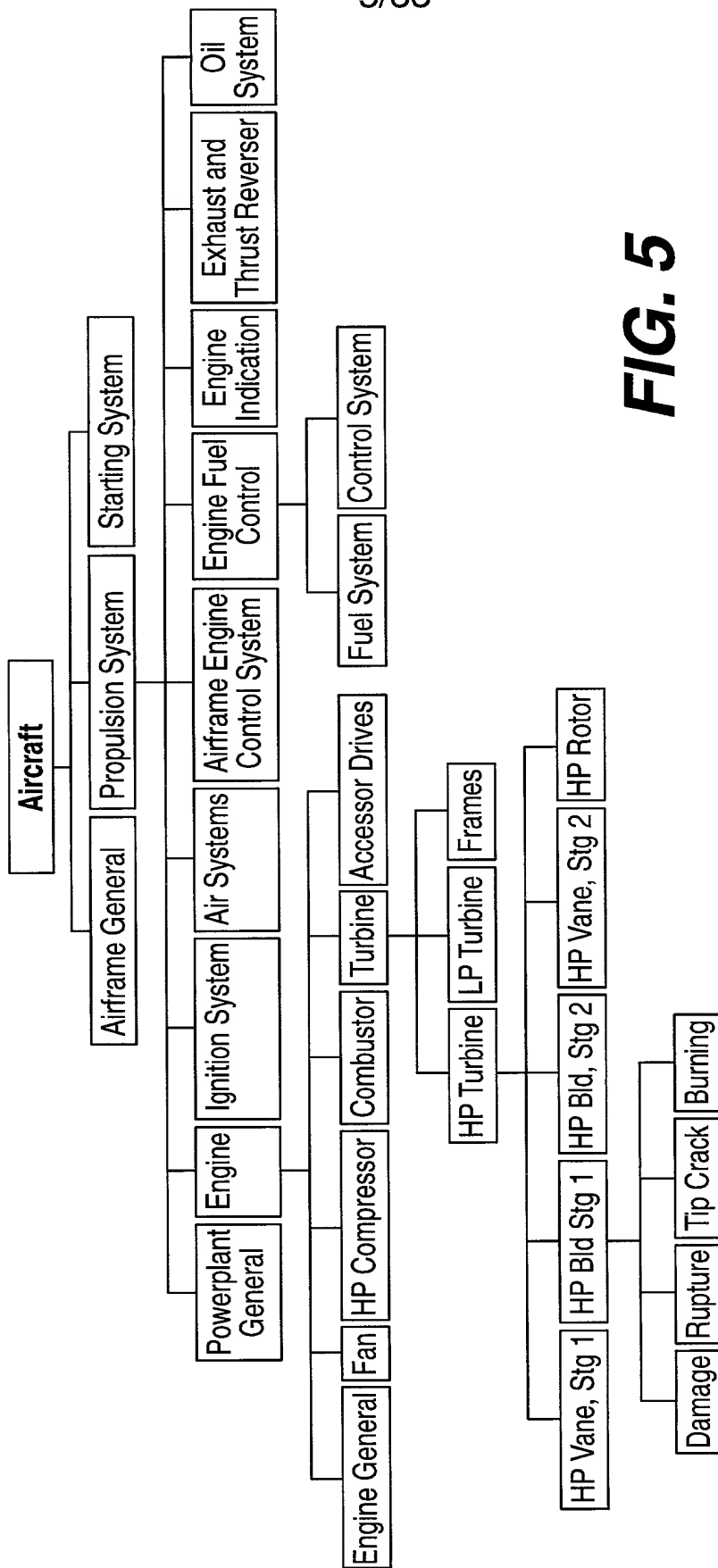


FIG. 5

FIG. 6a

Moving Right/Left

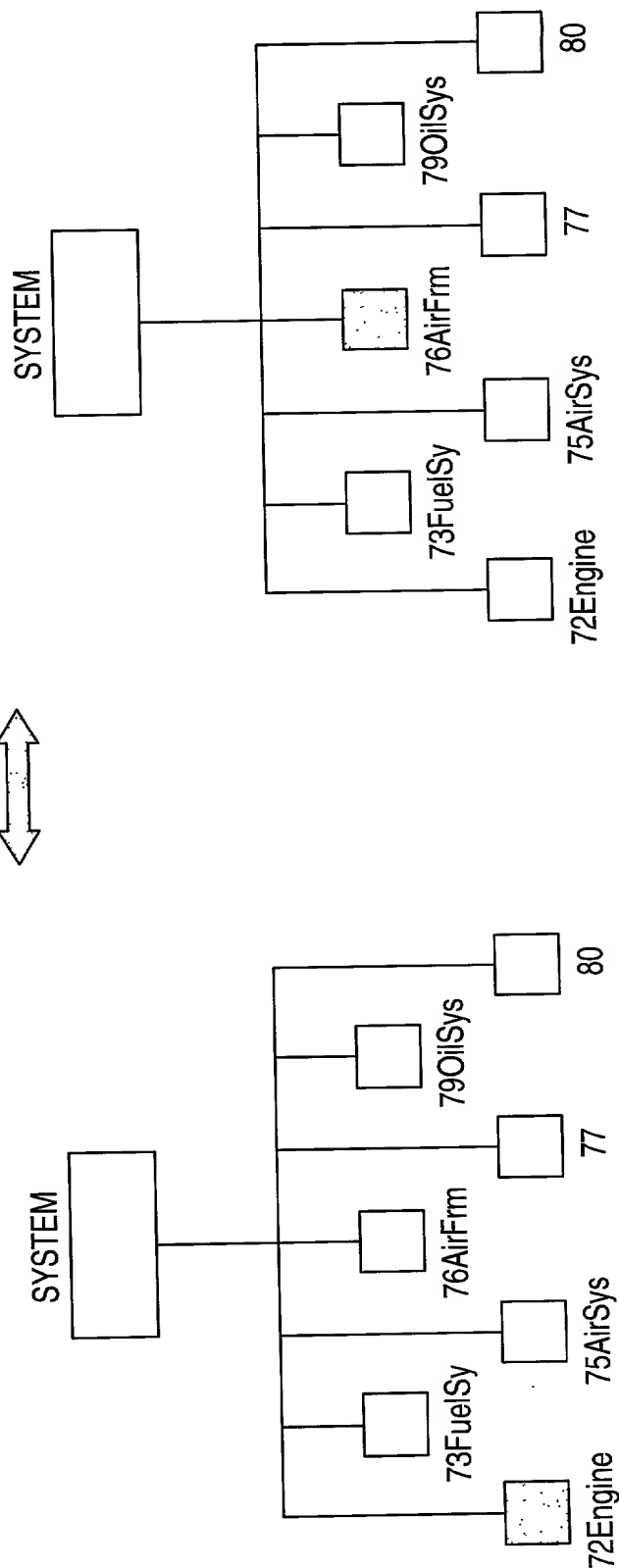
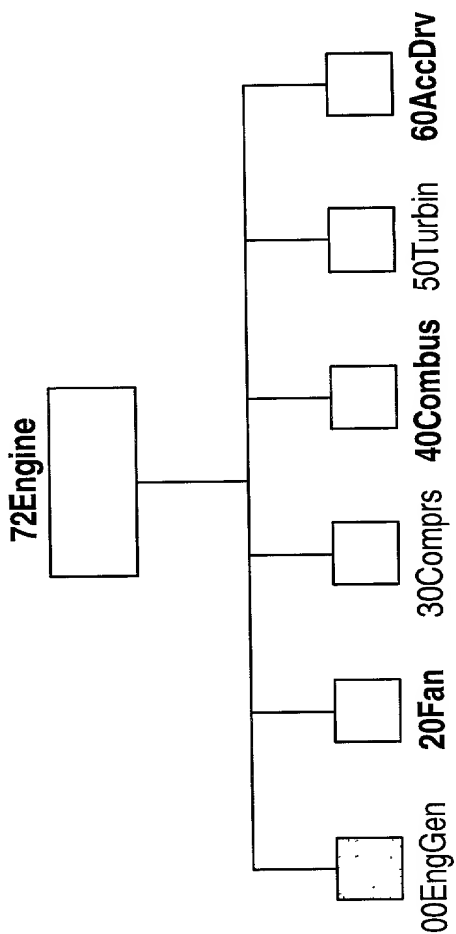


FIG. 6b

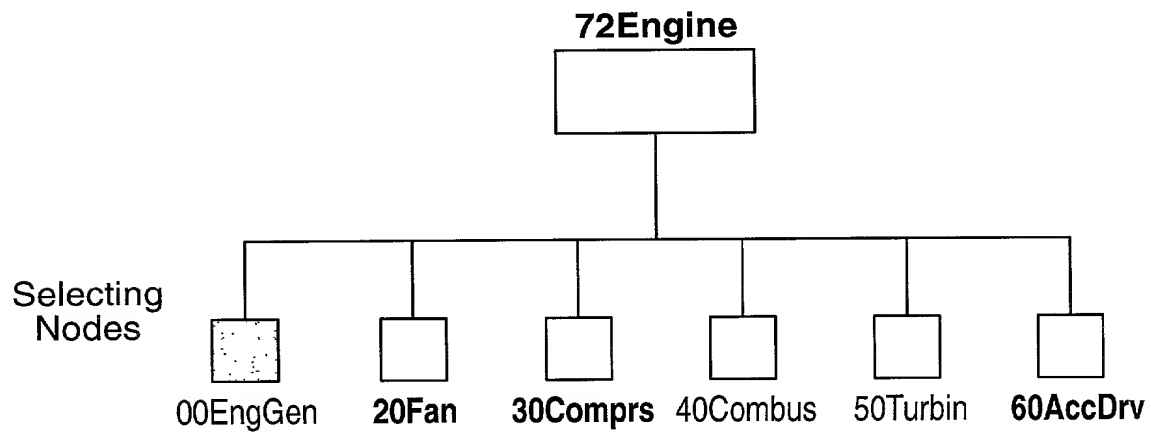


Moving Up/Down



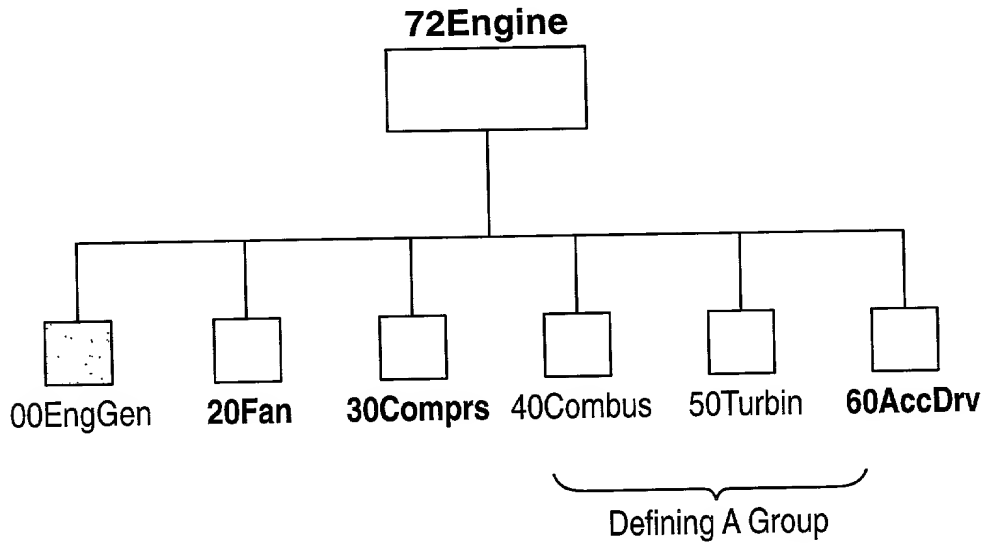
8/33

FIG. 6c



9/33

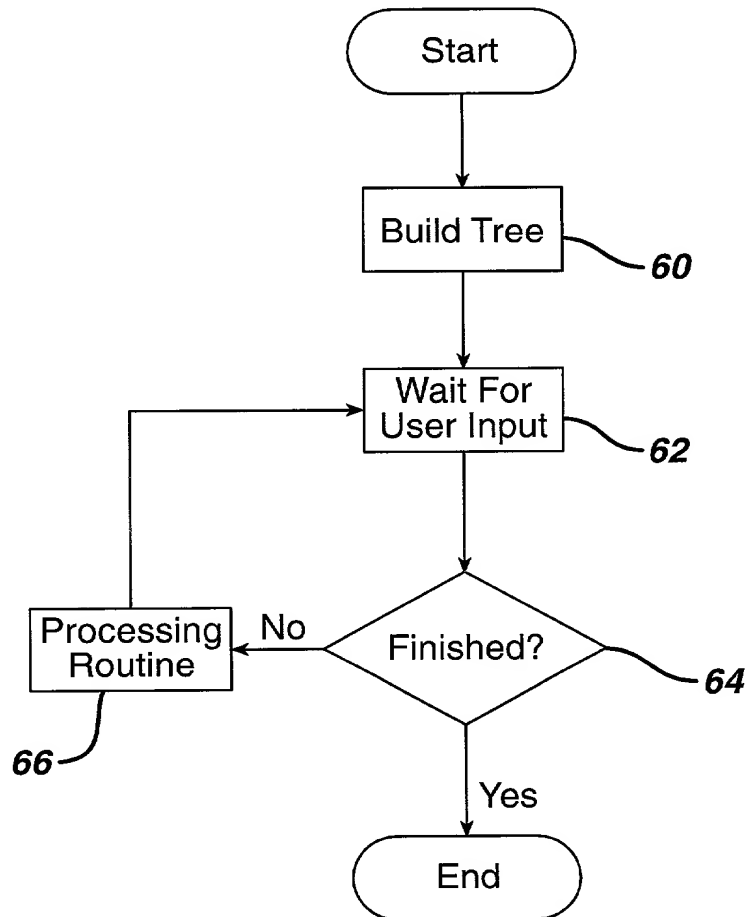
FIG. 6d



009556 10101

10/33

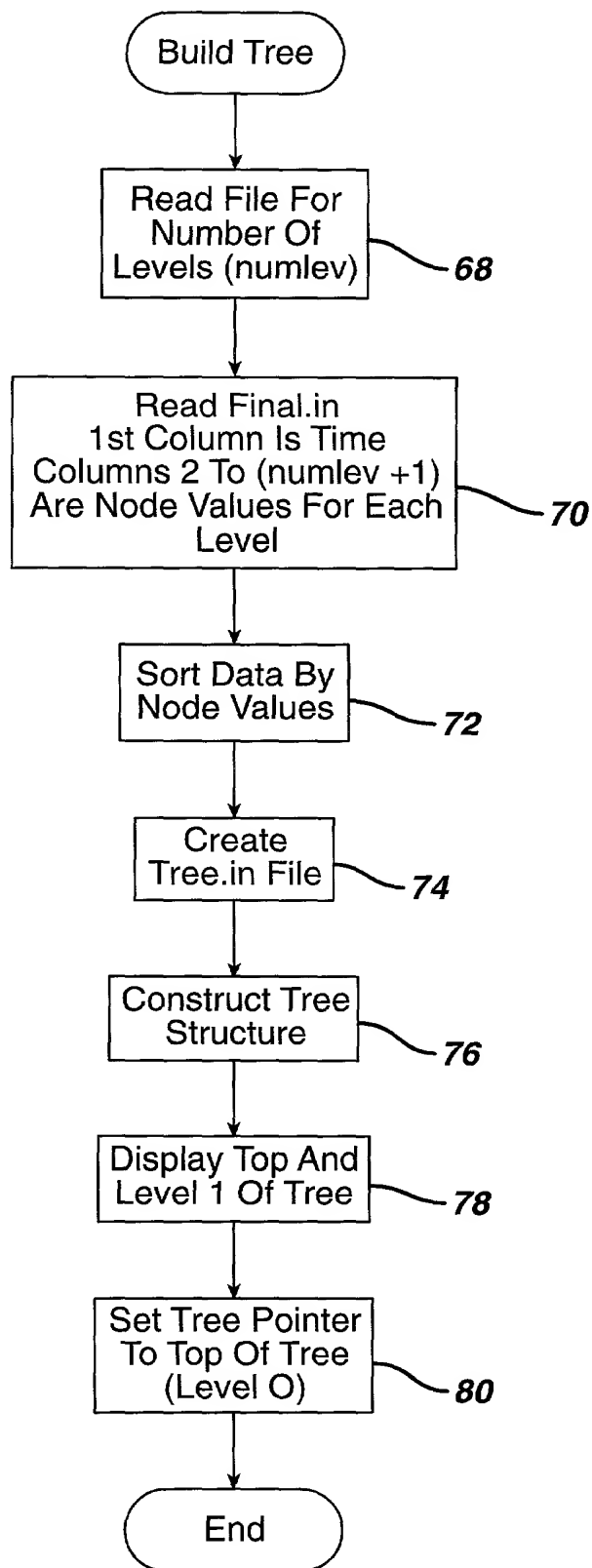
FIG. 7



09/897,556 10/33

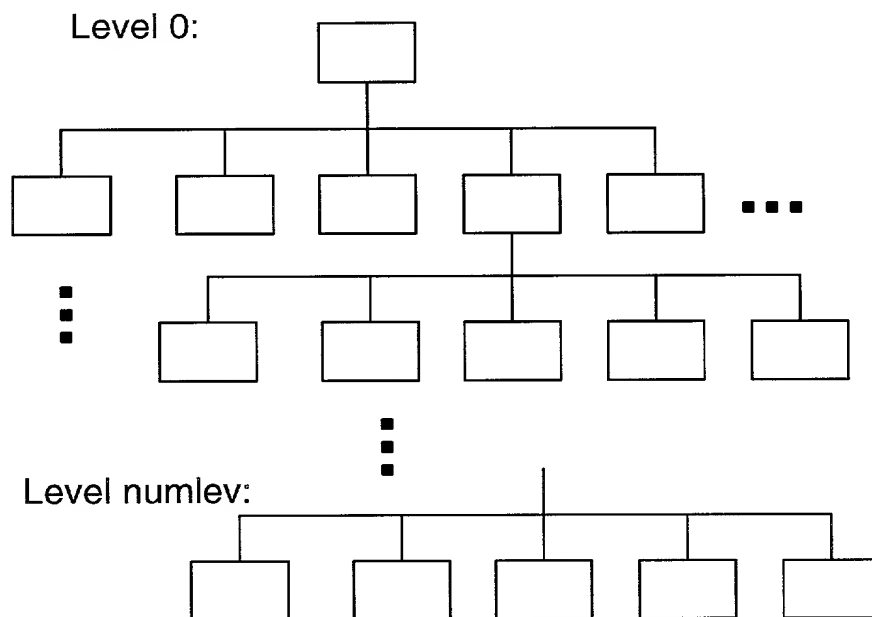
11/33

FIG. 8



12/33

FIG. 9



09/897,556

FIG. 10a

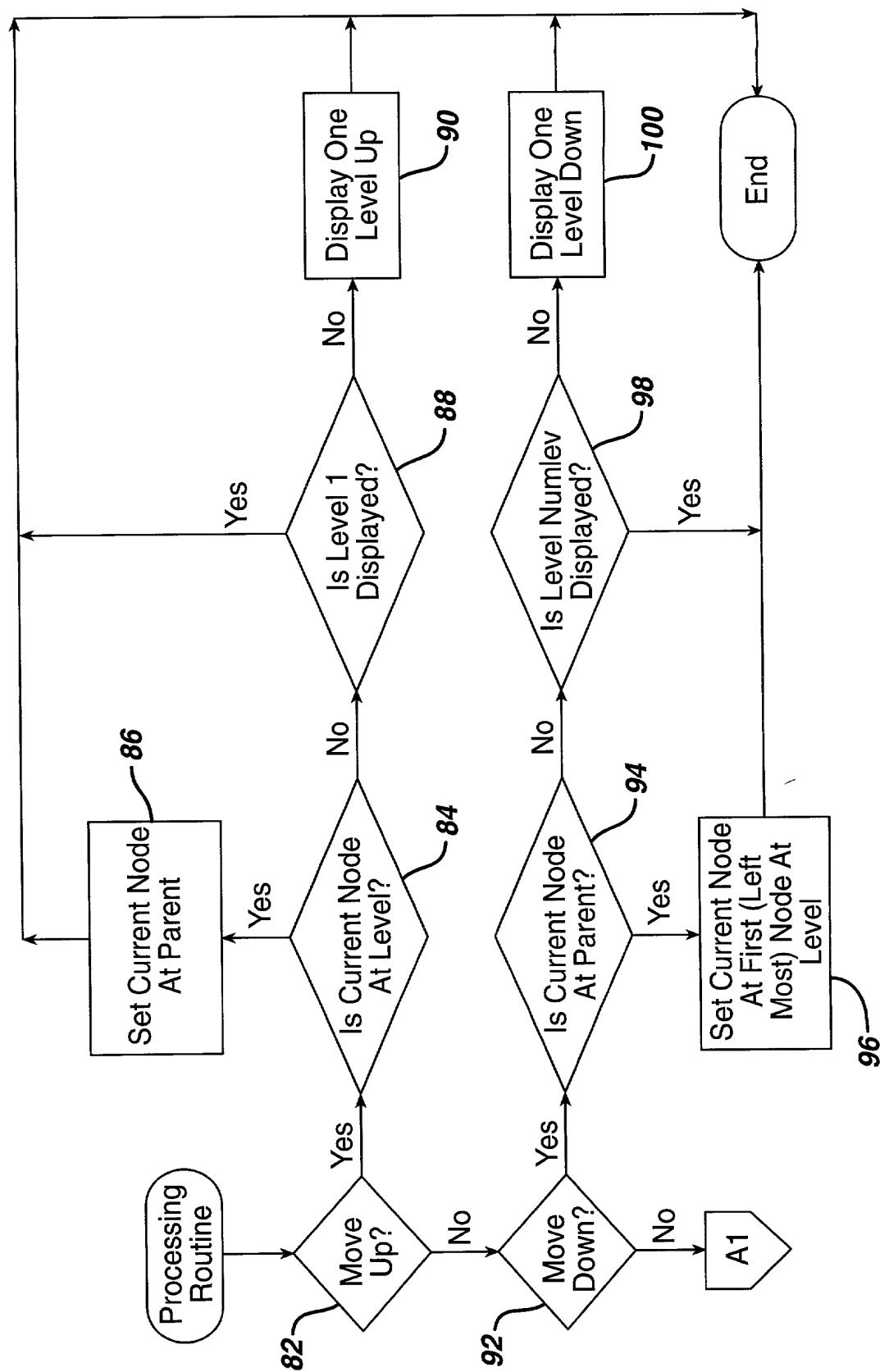


FIG. 10b

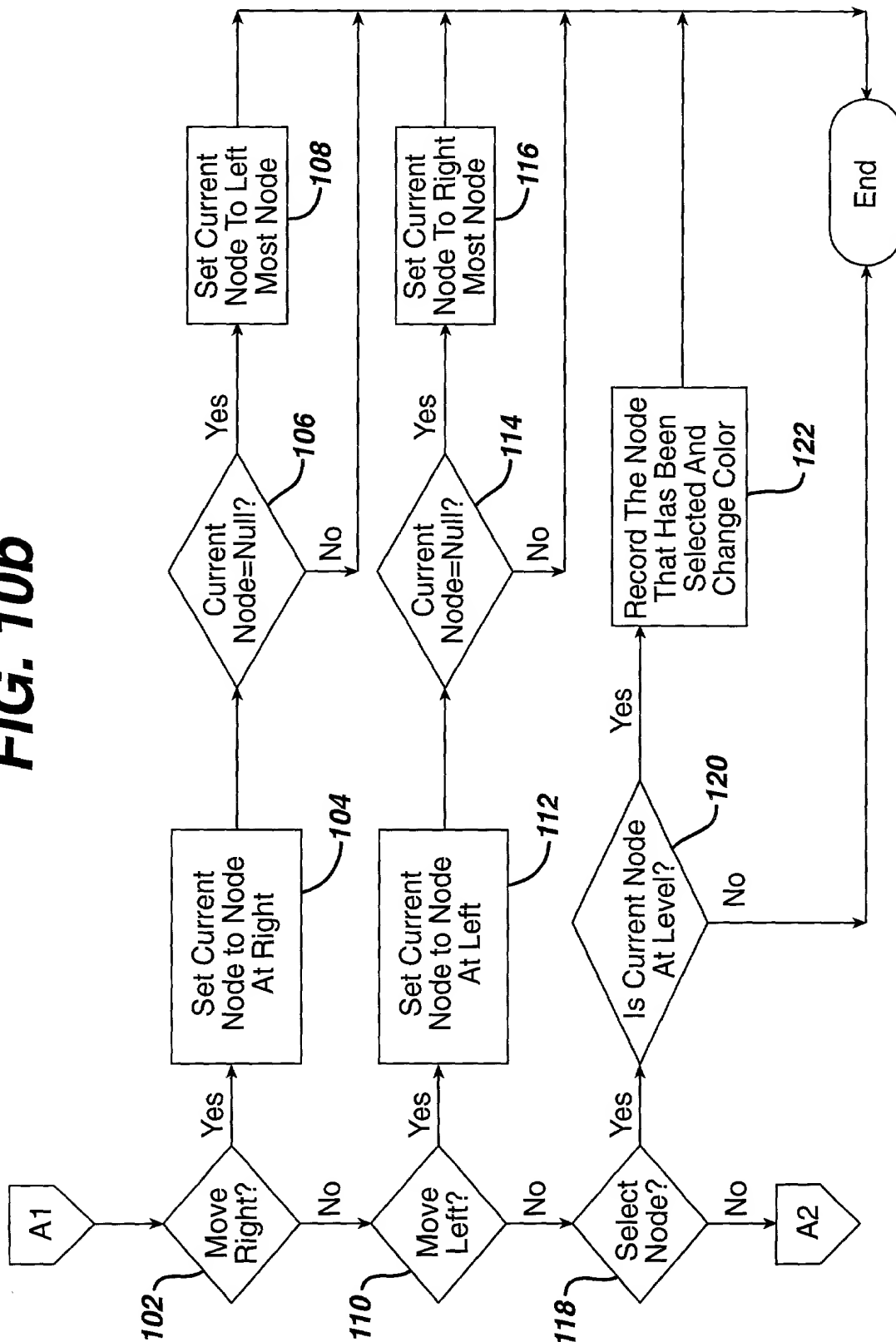


FIG. 10C

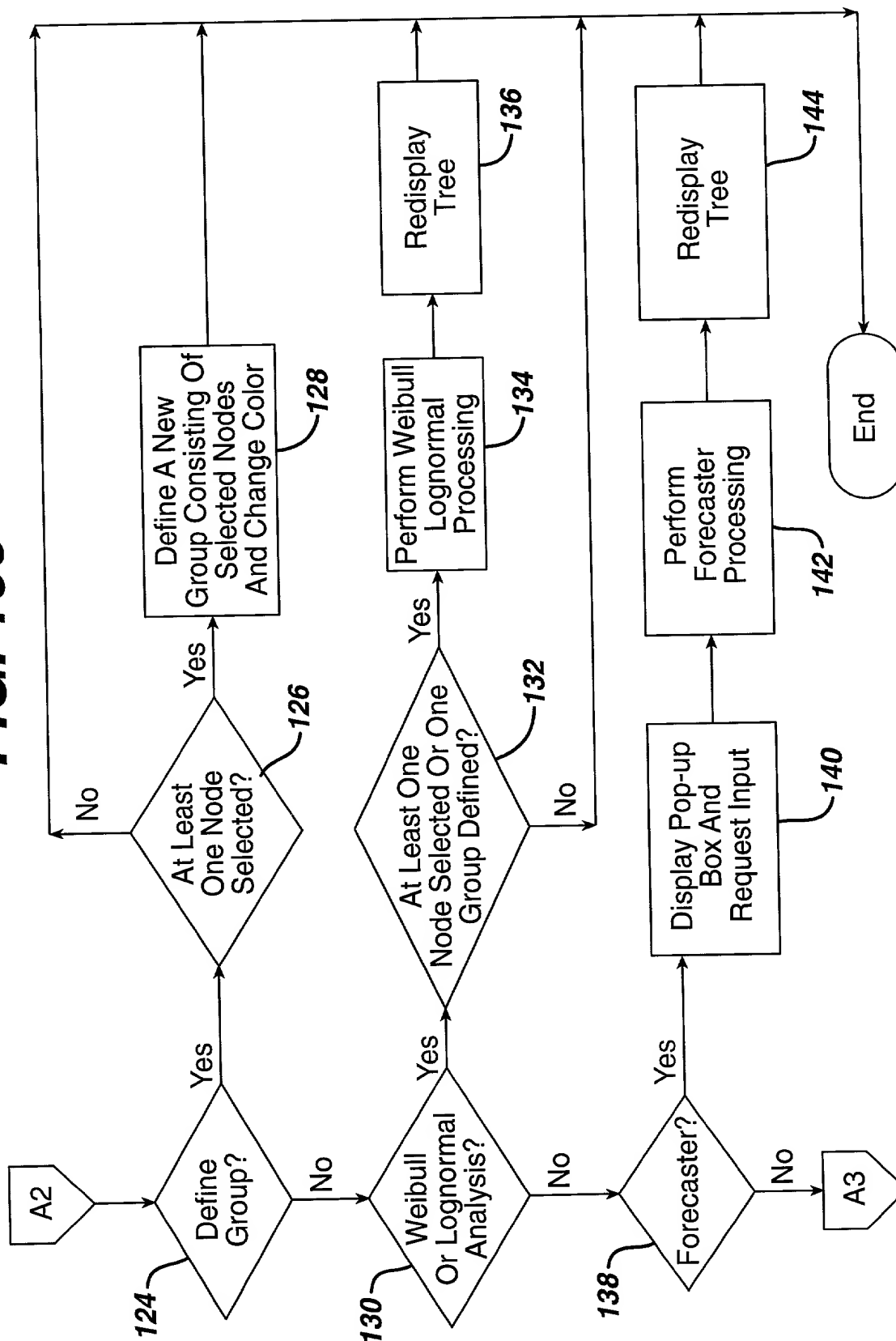
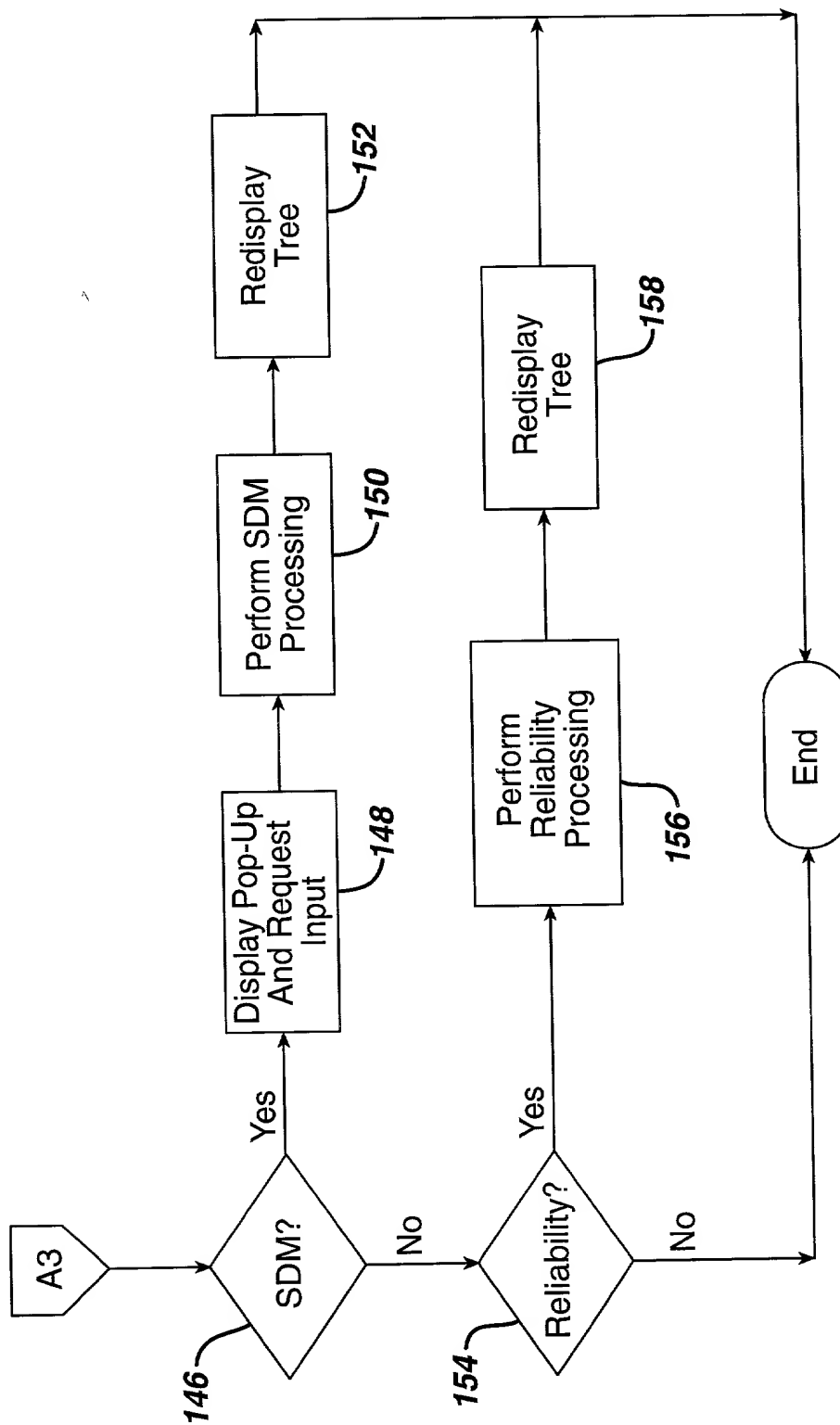
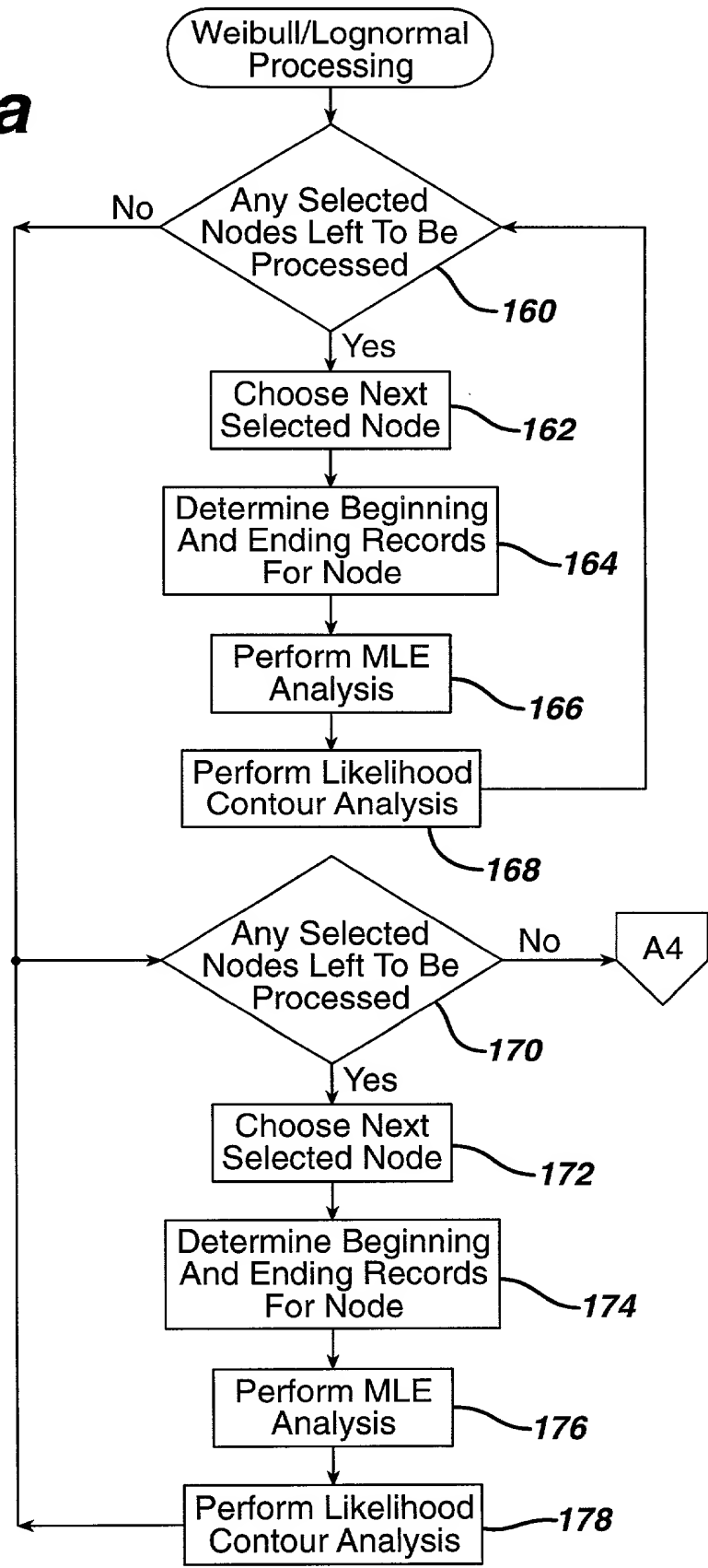


FIG. 10d



SER. NO: 09/897,556
 INVENTOR: BROCK E. OSBORN, ET AL
 DOCKET NO: RD-27,987
 ATTORNEY: DAVID C. GOLDMAN
 ATTY. TELEPHONE: (518) 387-5927

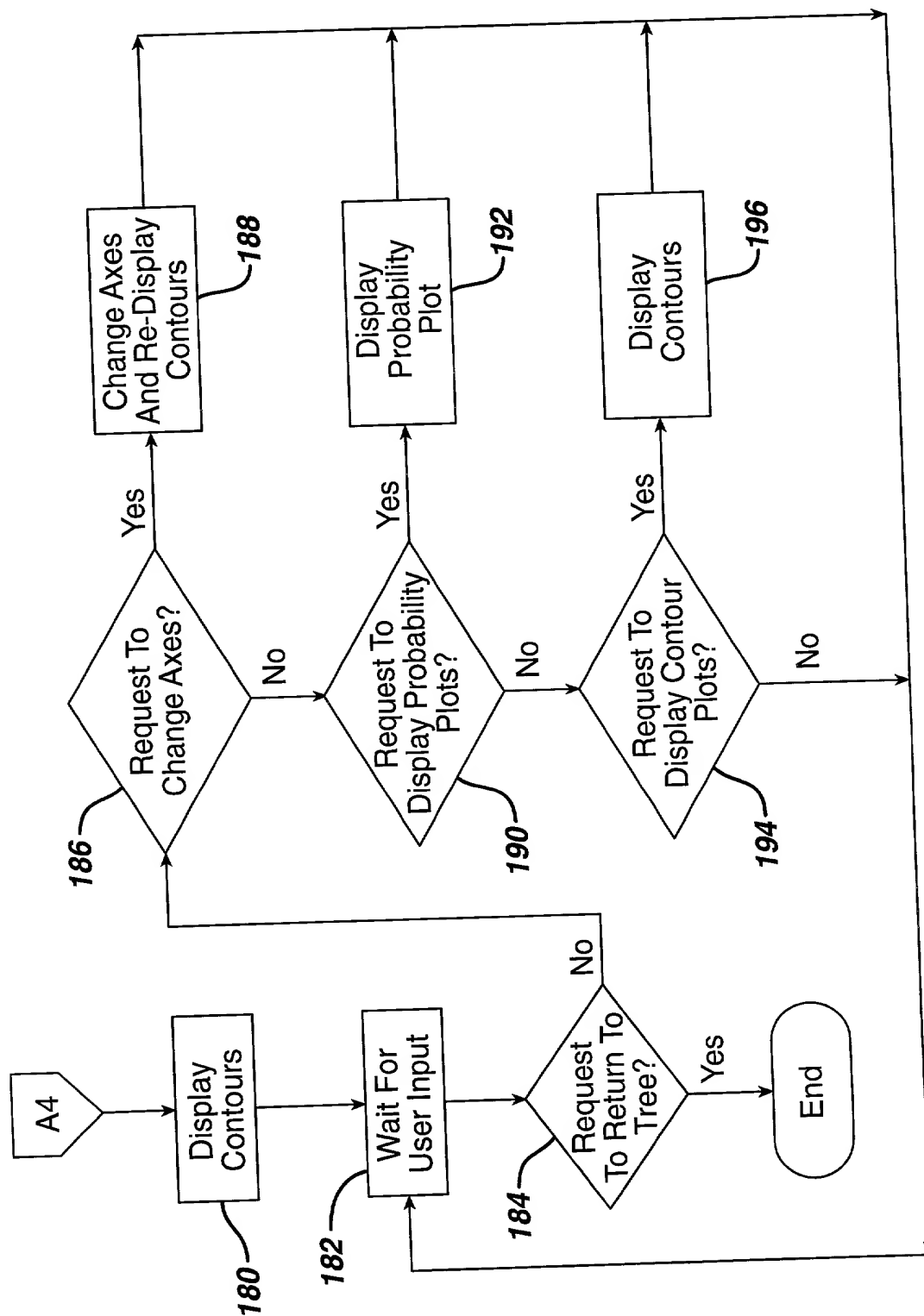
FIG. 11a



09/897,556 101501

18/33

FIG. 11b



19/33

FIG. 12

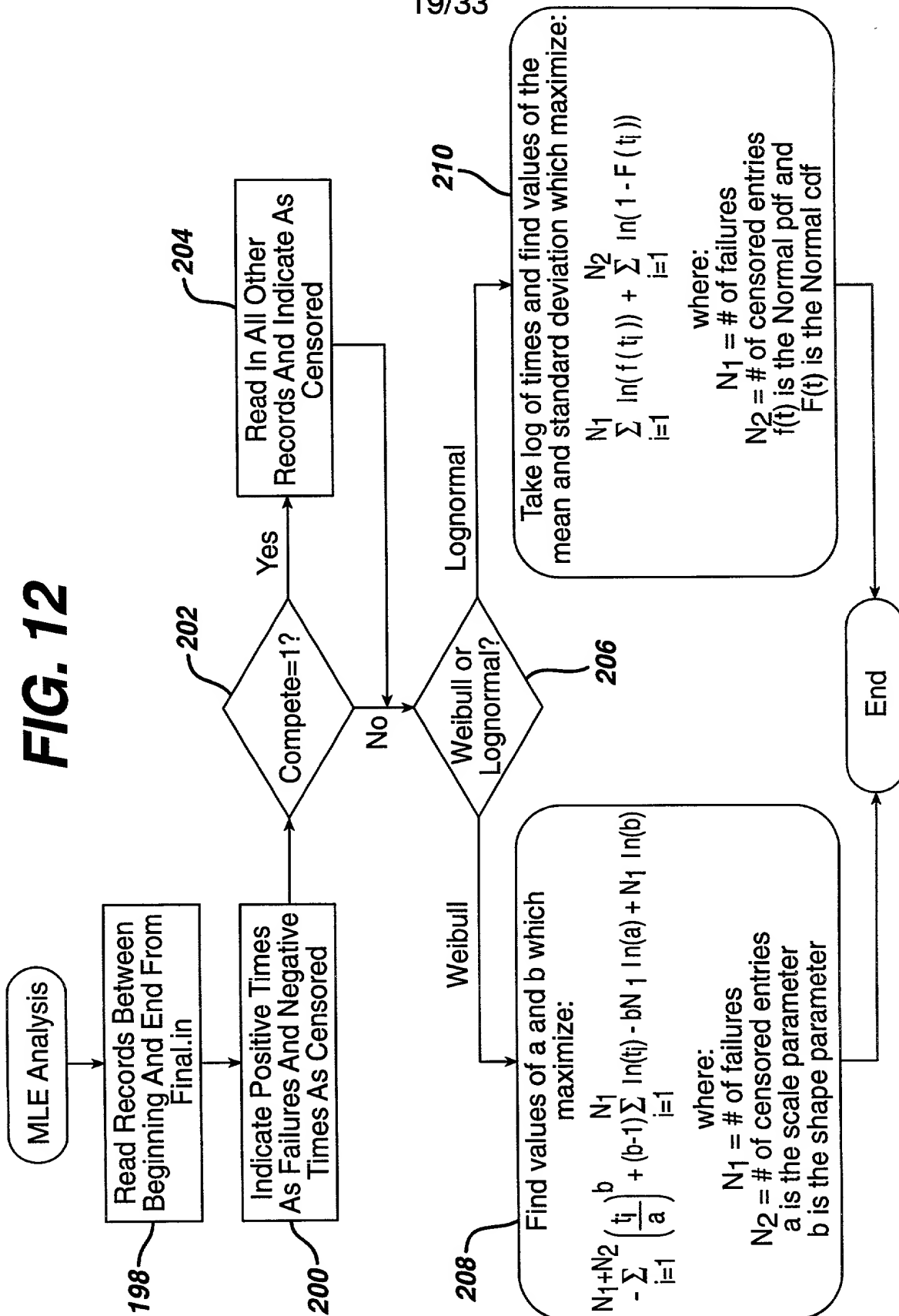
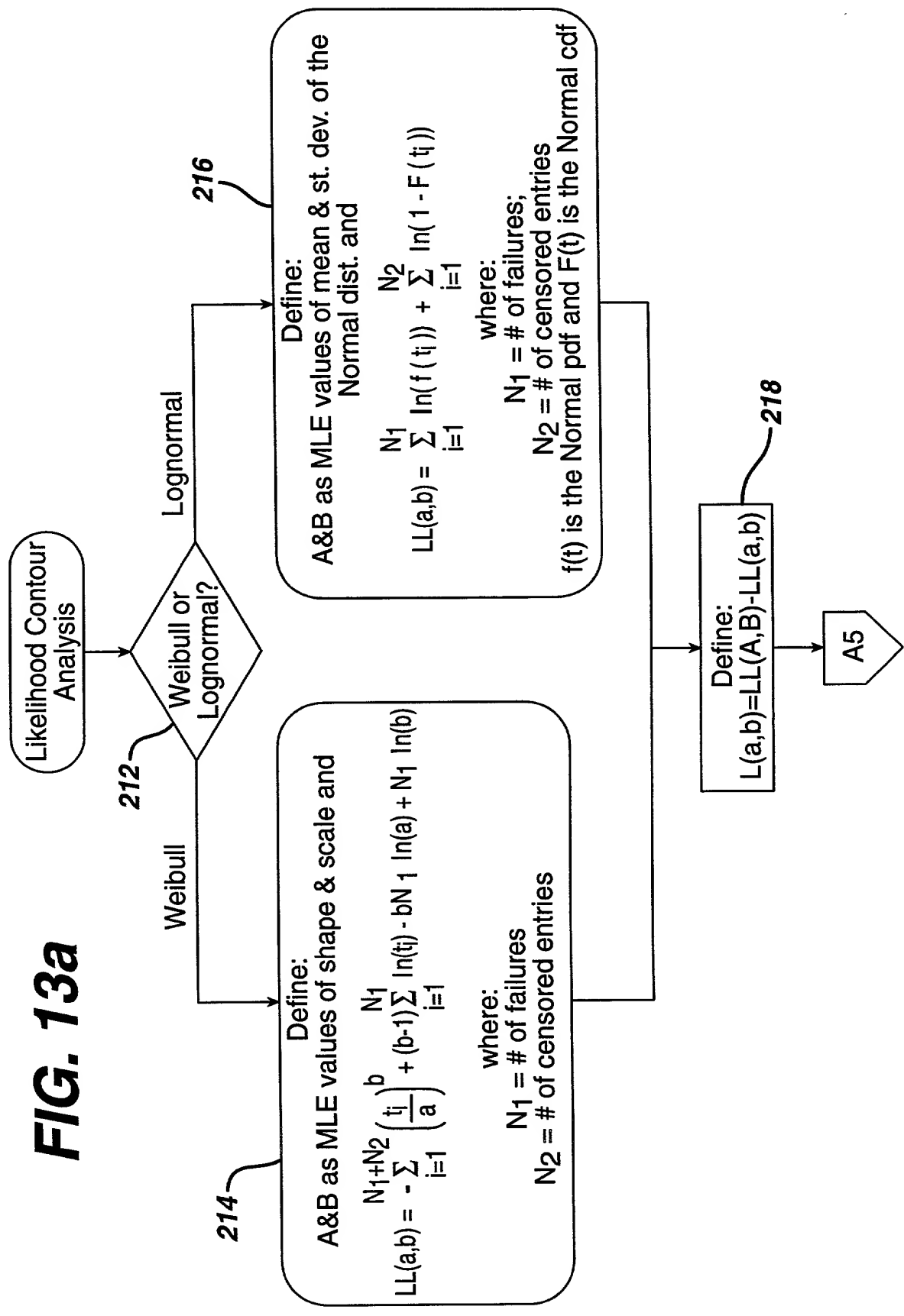
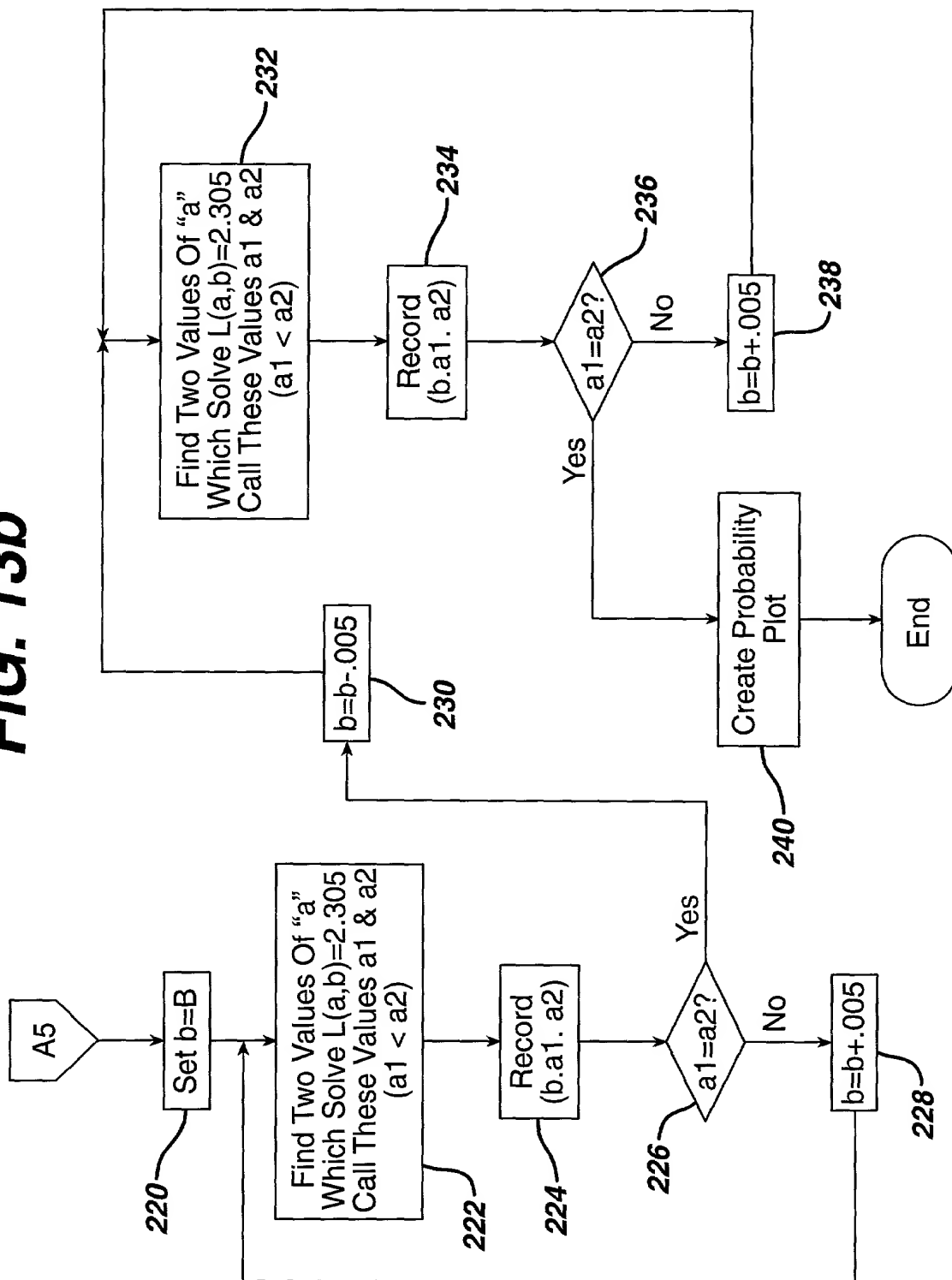


FIG. 13a



TOP SECRET 9526860

FIG. 13b



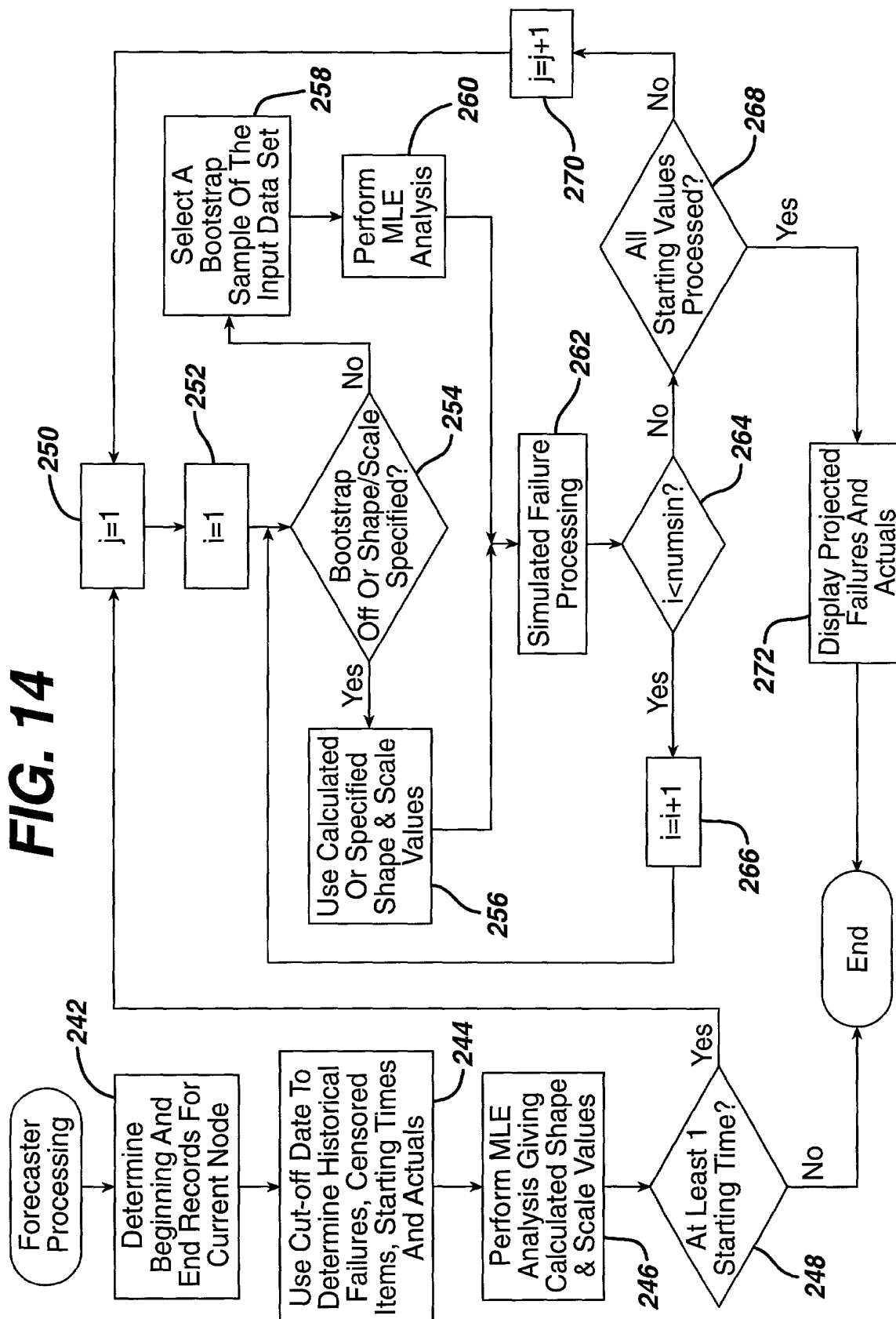


FIG. 15

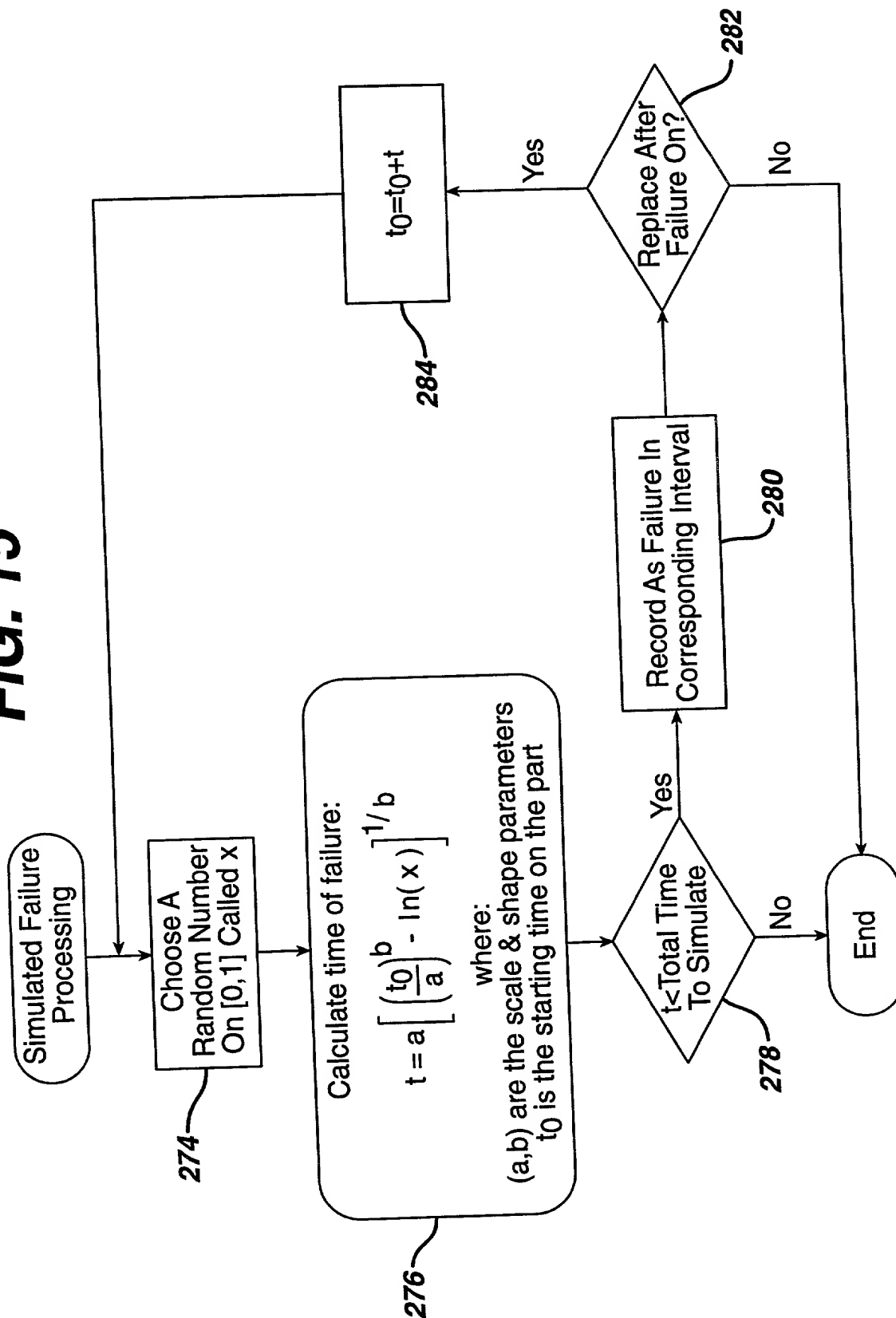


FIG. 16

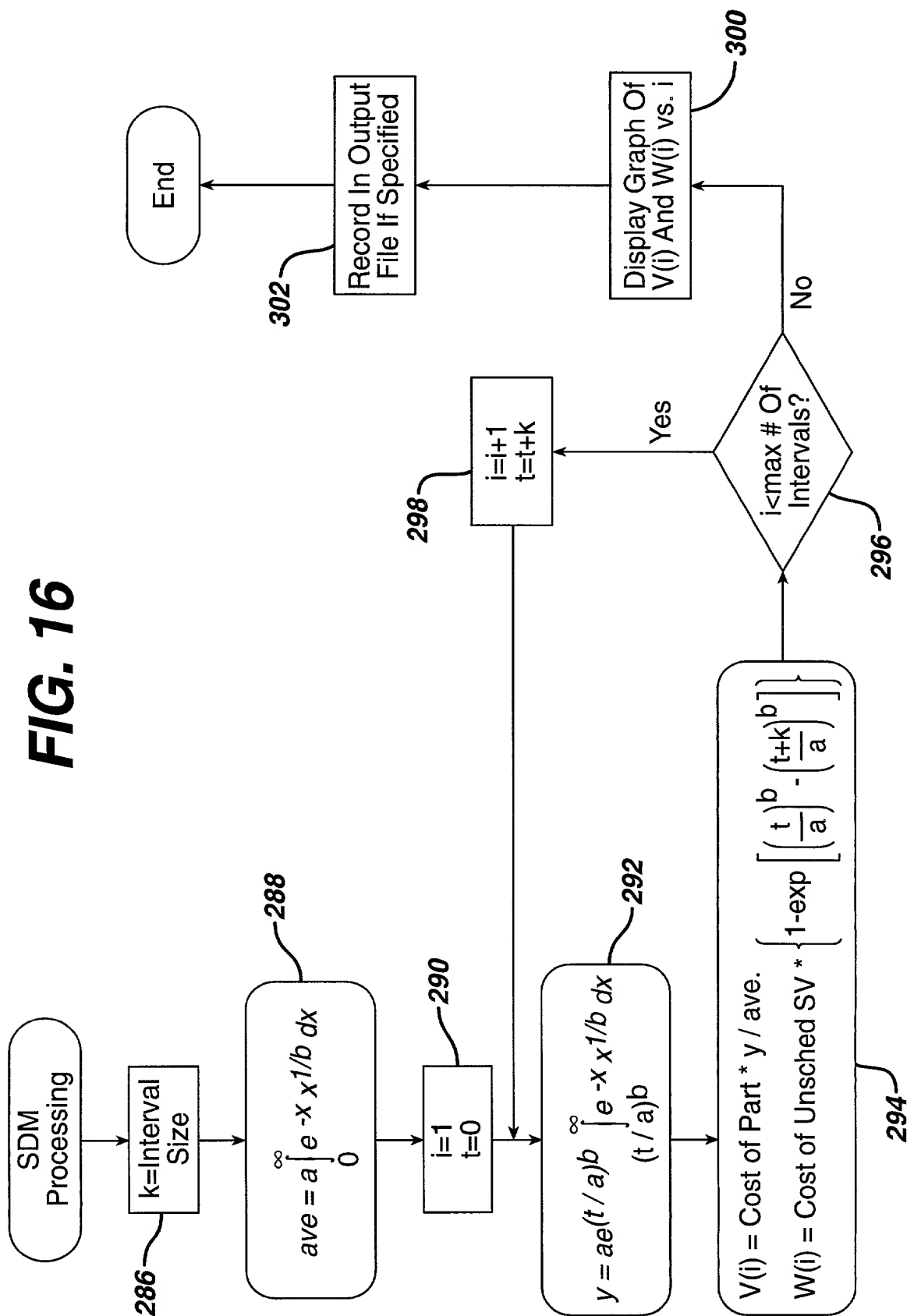


FIG. 17

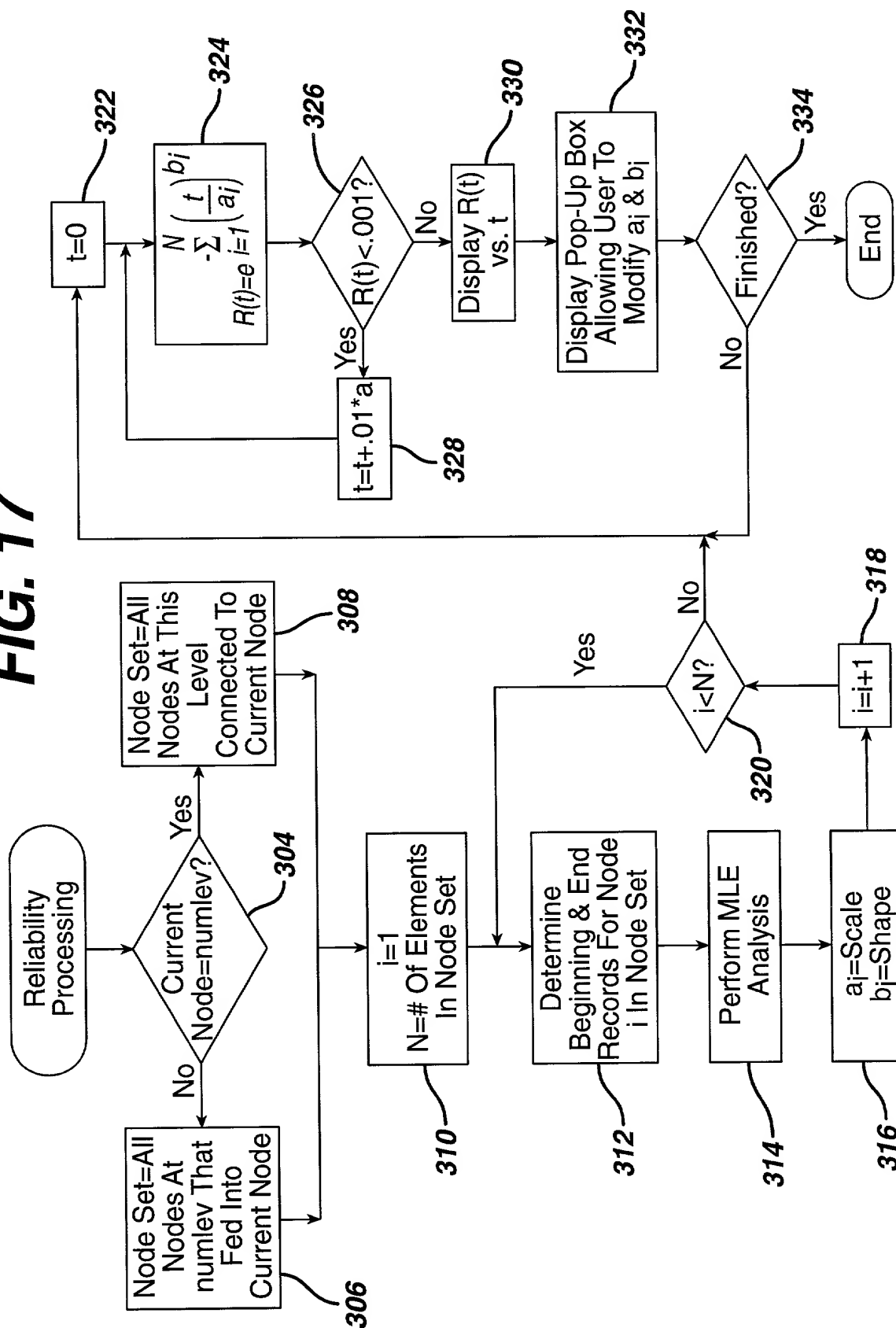


FIG. 18a

Likelihood Contour Plot

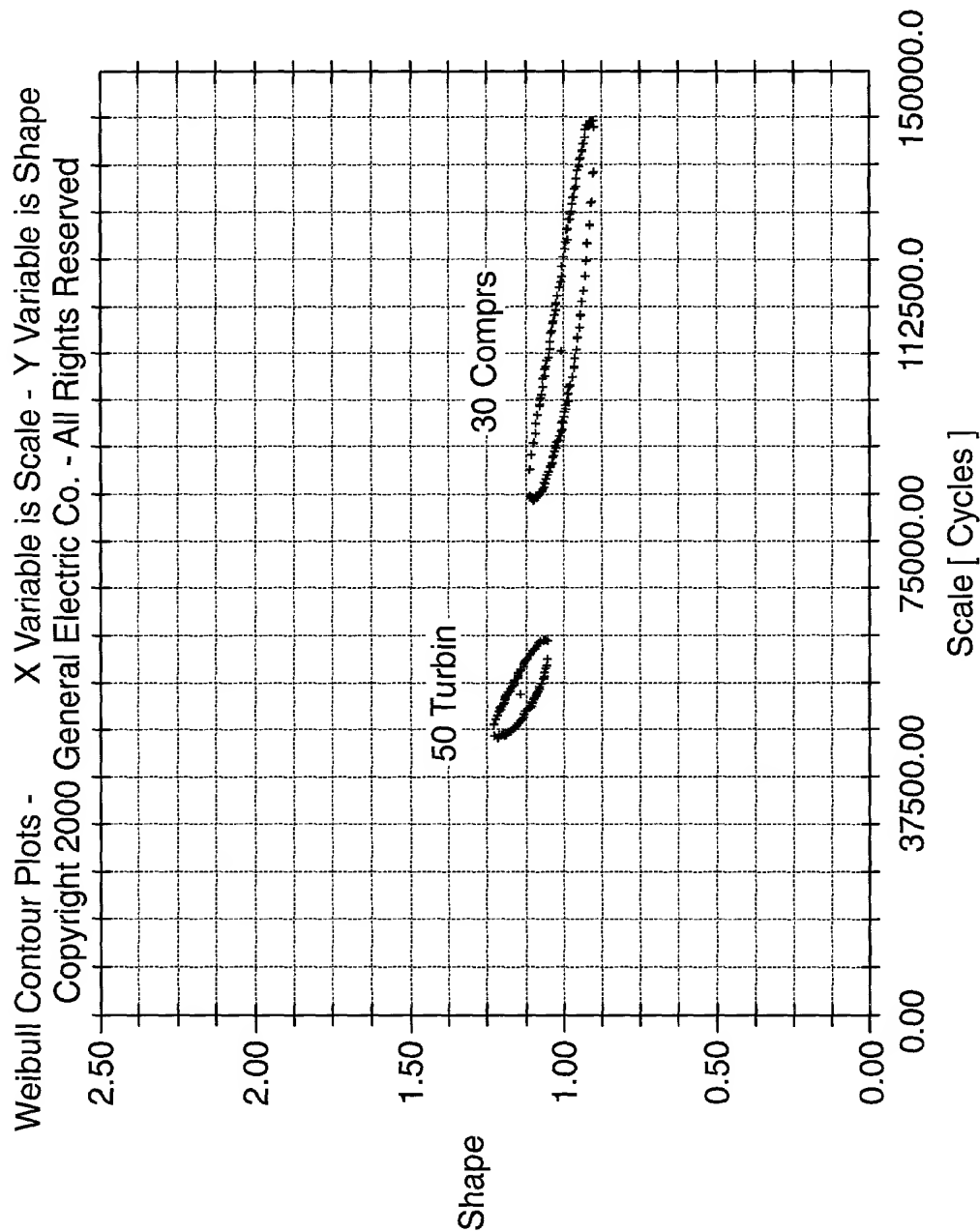
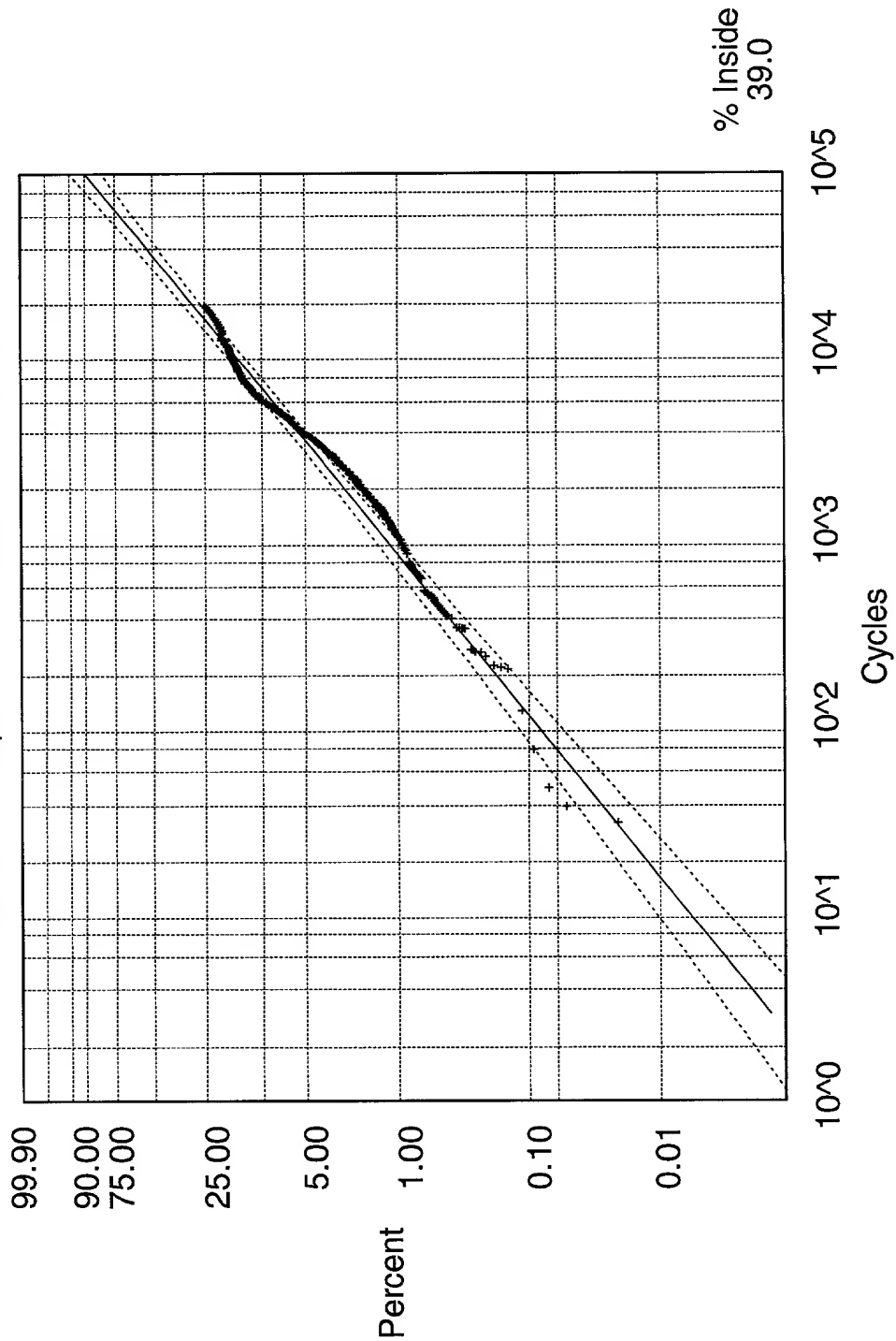


FIG. 18b

Probability Plot

72 Engine-50Turbin

Weibull: Shape = 1.15 Scale = 51094.65



Strategically Driven Maintenance

Shape OK Cancel

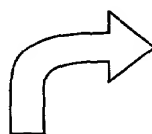
Scale

Interval Length

Cost of Part

Cost of Unscheduled SV

Output File (optional)



Optimal Time to Pull - Shop Visit No. 28
 Expected Savings When Used as
 a General Strategy = \$ 4343.53

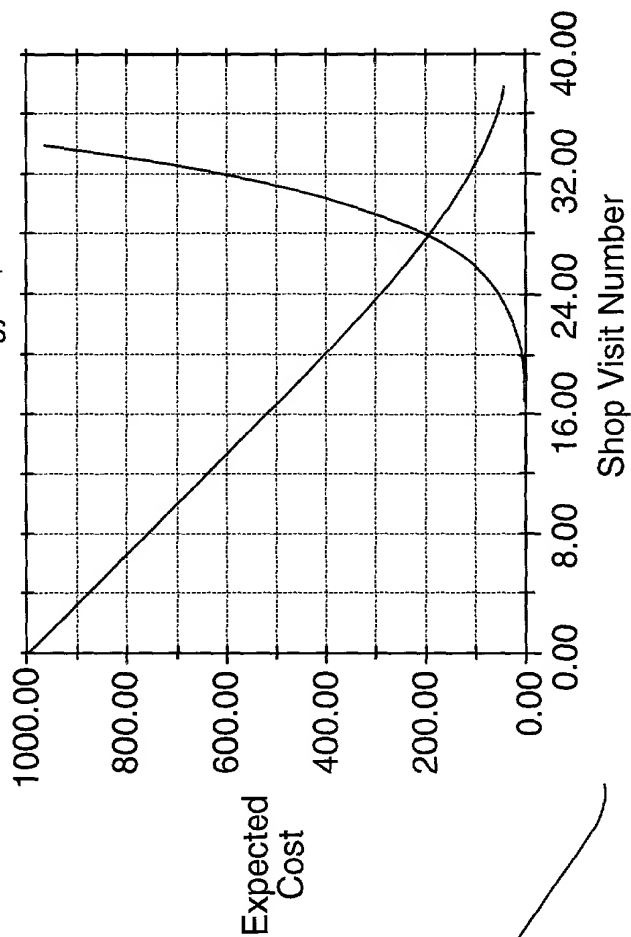


FIG. 18C

FIG. 18a

SER. NO: 09/897,556
INVENTOR: BROCK E. OSBORN, ET AL
DOCKET NO: RD-27,987
ATTORNEY: DAVID C. GOLDMAN
ATTY. TELEPHONE: (518) 387-5927

29/33

Reliability Data

Part Number	Shape	Scale	Redundancy
0	1.20	2000.00	1
1	4.60	3000.00	1
2	2.50	1000.00	2
3	4.50	4000.00	3
4	1.00	2500.00	4
5	1.20	2000.00	1
6	4.60	3000.00	3
7	2.50	1000.00	6
8	4.50	4000.00	1
9	1.00	2500.00	2
10	1.20	2000.00	1
11	4.60	3000.00	1
12	2.50	1000.00	2

Shape: 2.50 Scale: 1000.00 Redundancy: 6

Change Values

OK Cancel

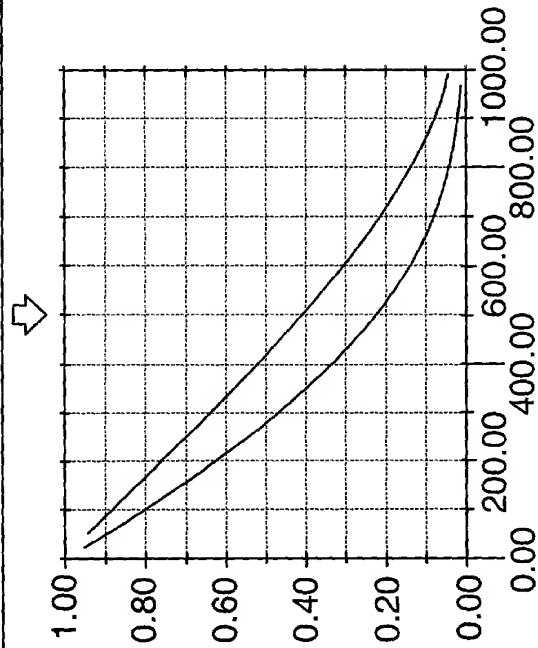
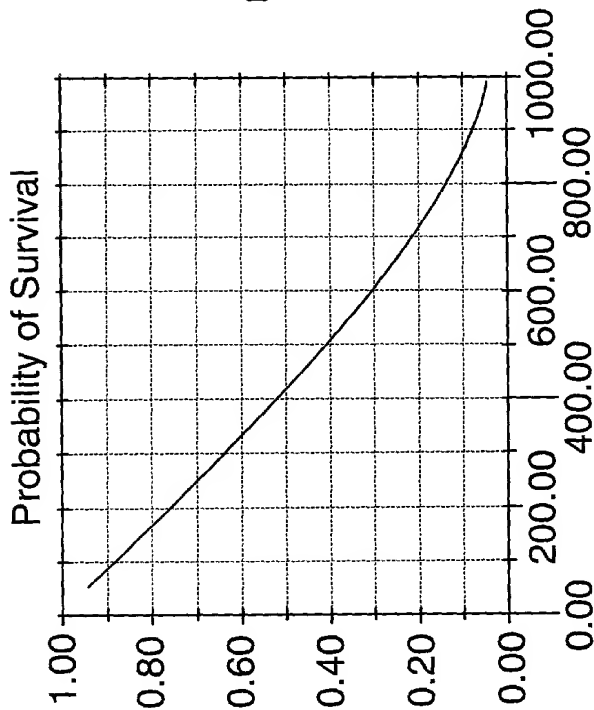


FIG. 18d

Forecast Input

Number of Intervals

12

Interval Size

30

Number of Simulations

100

Optional Parameters:

☒ Cumulative?

☐ Replace After Failure?

☒ Record Fractional Events?

☐ Turn Off Bootstrap?

Cut Off Date

1/1/00

Output File

c:\sigmahat\ans.out

Input for What-if Analysis

Shape:

Scale:

OK

Cancel

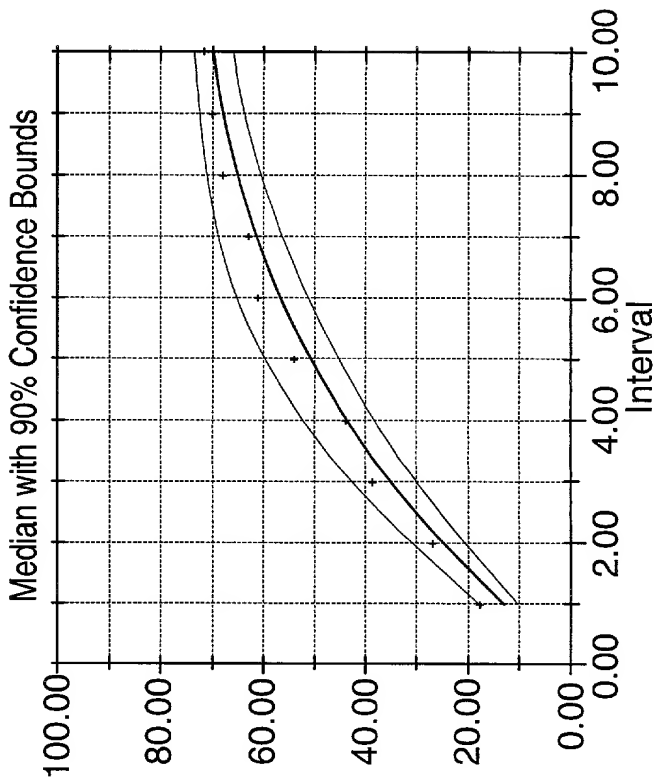
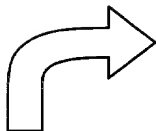


FIG. 18e

31/33

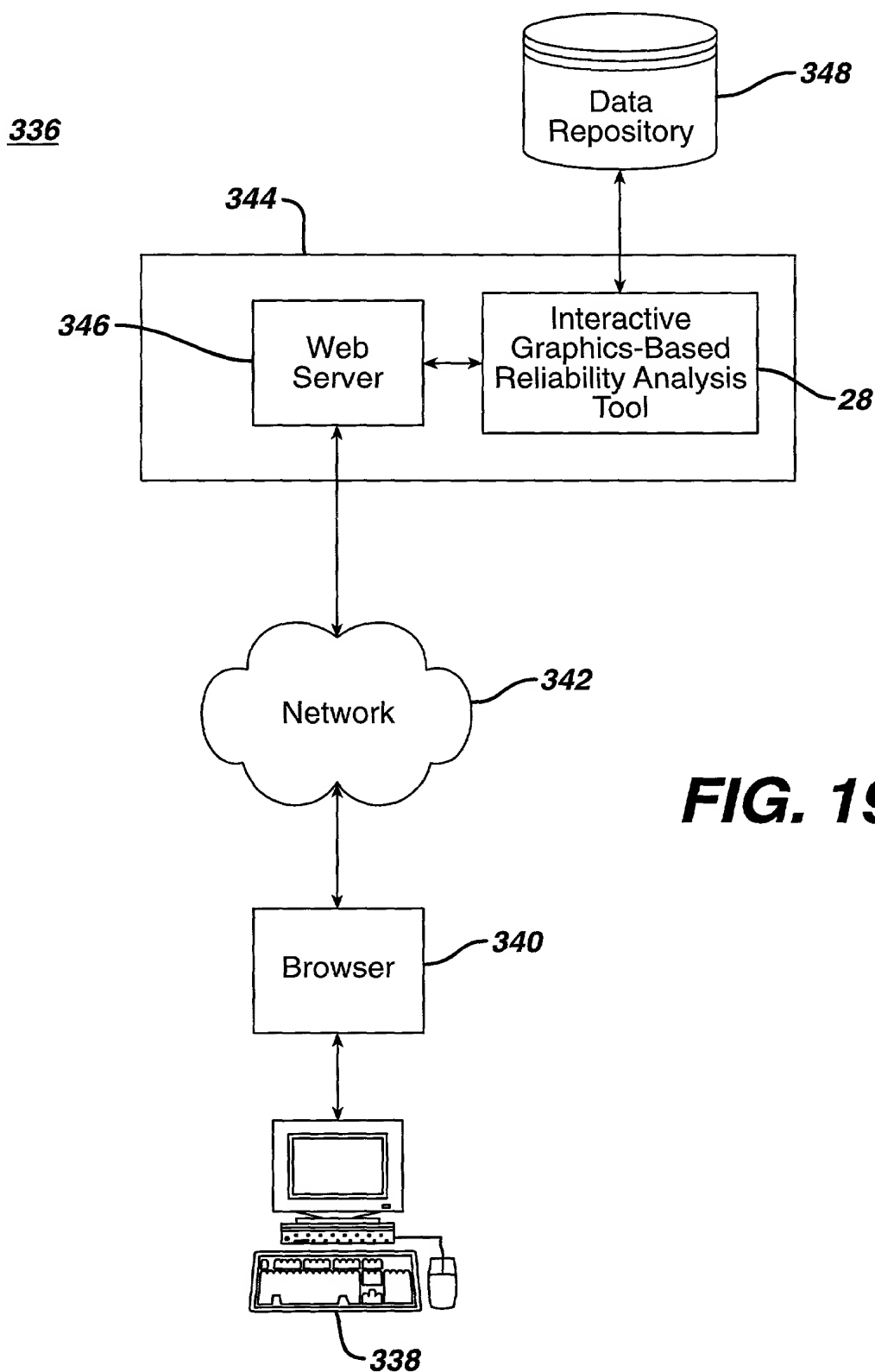


FIG. 19

FIG. 20

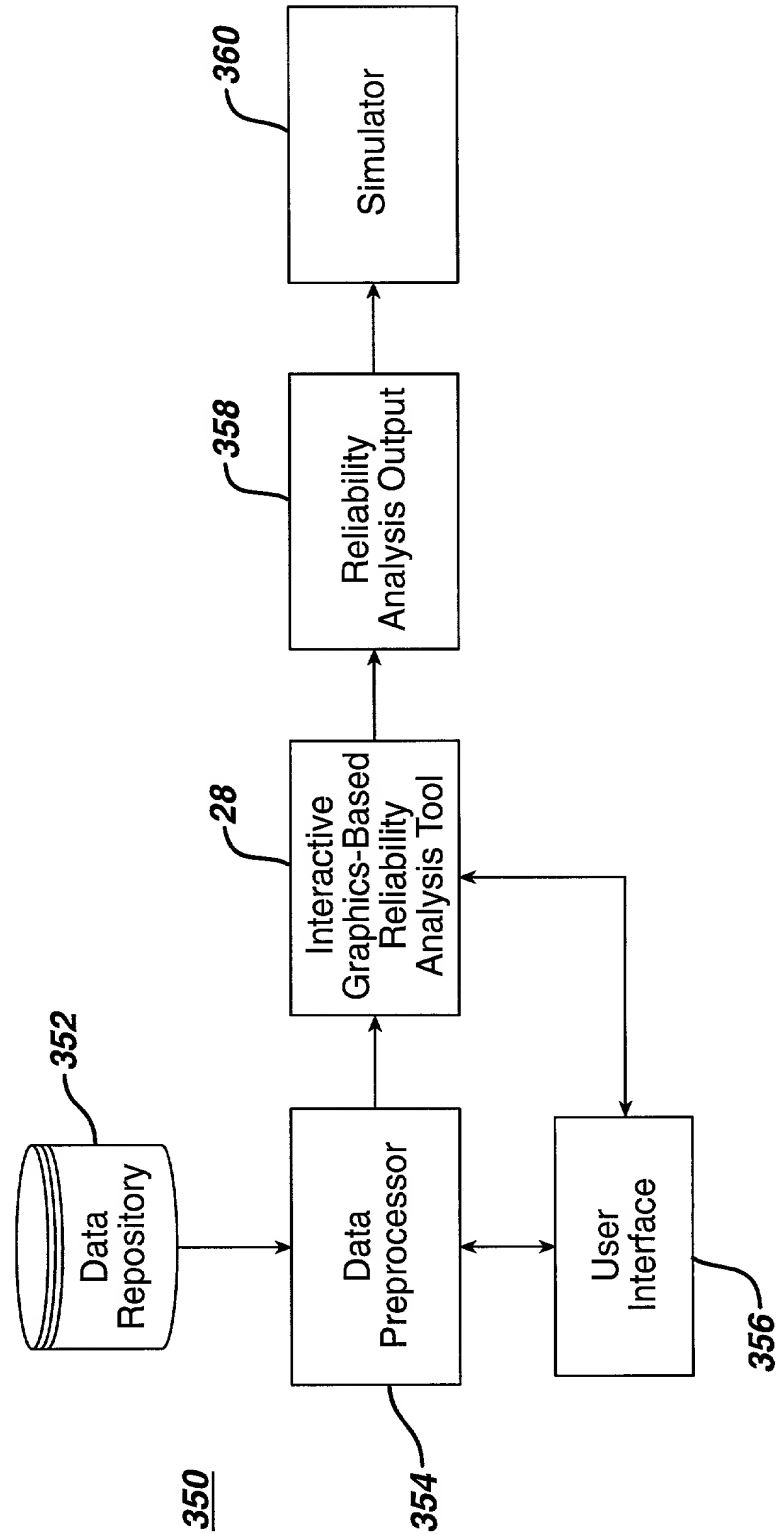


FIG. 21

FIG. 21

